ADAS QUARTERLY REVIEW

INDEX TO ISSUES 16–39

of ADAS Quarterly Review

1975–80

Subject Pages 3–6

Author Pages 7–11

LONDON: HER MAJESTY'S STATIONERY OFFICE

1981

£1.40 net

© Crown copyright 1981
First published 1981

ISBN 0 11 241219 X

SUBJECT INDEX

ISSUES 16-39

	Issue	Page
ADVISORY WORK		
Link Farm reviewed, a	24	32
Milk production, a long-term advisory exercise in	29	88
Questionnaire design	17	1
AGRONOMY		
Cereals — why only 35 cwt per acre?	16	152
Forage crops to complement grassland, the choice of	25	63
Forage maize, recent developments in the production and utilisation of	37	95
Grazed grassland is not achieved in practice, some factors to explain why the potential of	35	211
Hay, preservation of moist	39	212
Hill land improvement	36	47
Maximum yield potential in cereals, a physiological analysis of	25	72
Pasture improvement and some current contradictions, herbicides,	24	36
Peas, the origin, performance and breeding of leafless	37	69
Potato seed tubers, physiological quality of	36	27
Precision drilling and broadcasting for the establishment of cereal crops in Great Britain, the merits of	38	160
Straw in reduced cultivations and direct drilling, the problem of	24	26
Sugar beet seed pelleting	18	73
Sward changes on yield, the evidence of effect of	32	1
Yields of wheat and barley in the United Kingdom, actual and potential	29	76
Yields, raising cereal	19	109
ANIMAL HUSBANDRY		
Blue-greys as suckler cows and the role of the Whitebred Shorthorn	30	153
Bull evaluation and selection, breeding profitable dairy cows —	33	102
Disease forecasts, animal — reflections on the winter 1978/79	37	87
Diseases, the effects of weather on animal	21	214
Ewe management for control of reproductive performance	35	231
Forage crops, the utilisation of — a review of recent work undertaken by ADAS	28	1
Gilts, early sexual maturity and mating of	30	139
Grazing systems, the evolution of modern dairy cow	22	275
Hypomagnesaemia in sheep: A review	34	151
Implants in beef production, the use of growth promoting	31	185
Mastitis control in the dairy herd, the present position of	26	119
Mixed stocking of beef cattle and sheep	17	33
Nematode infection as a factor in the management of cattle, the hazard of	20	162
Rabies and the livestock farmer	28	28
Reproductive performance, ewe management for control of	35	231
Sexual maturity and mating of gilts, early	30	139
Winter milk production, forage crops for profitable	17	7
Worming of suckler cows, the	22	243
ANIMAL NUTRITION		
Complete diet feeding of dairy cows, developments in	34	195
Complete diets for dairy cows, a review of the nutritional aspects of	29	51
Dairy cows, developments in feeding	39	234

	Issue	Page
Early lactation, feeding the dairy cow in,		
Part I A review of the literature	26	87
Part II Practical implications	26	97
Forage crops for profitable winter milk production	17	7
Grass for conservation, the field assessment of digestibility of	23	323
Levels of feeding, the response of individual cows to	34	179
Milk quality, feeding for	39	193
Selenium for ruminants, a note on	38	129
Silage additives, an approach to the evaluation of	24	1
Silage in and out of the silo, aerobic deterioration of	34	167
Straw for ruminants, the feeding value and worthwhileness of chemically processed	22	247
Straw to ruminants, the feeding value of	21	220
CULTIVATION		
Minimum cultivation in Warwickshire, survey on the use of	28	13
Precision drilling and broadcasting for the establishment of cereal crops in Great Britain, the merits of	38	160
Reduced cultivation and direct drilling since 1968, a review of Experimental Husbandry Farm experience with	23	306
Subsoiling on Bodmin Moor	22	235
Straw in reduced cultivation and direct drilling, the problem of	24	26
DRAINAGE		
Drainage investment: measuring the return	20	151
Opencast coal sites in the East Midlands, land drainage in the restoration of	30	132
ENVIRONMENT		
Agricultural chemicals and the environment. A review of the impact of agricultural chemical usage on flora and fauna	33	115
Aquatic weeds, the concept of localised control of	37	123
Atmospheric fluoride pollution in the United Kingdom and possible effects upon agricultural and horticultural crops	39	271
Landscape and farm buildings	35	223
FARM BUILDINGS		
Day lighting farm buildings	32	15
Landscape and farm buildings	35	223
Model to assist in the selection of farm building combinations for animal enterprises (DYNAMP), the use of a deterministic	18	81
Silo, a flexible walled	21	187
FARM MANAGEMENT		
Creativity in management	16	145
Energy crisis, farm management problems of the	36	1
Farm business analysis and planning, alternative approaches to	20	139
Forage crops for profitable winter milk production	17	7
Mini-computers in farm management, the use of: Current developments and some implications for the future	29	71
Model to assist in the selection of farm building combinations for animal enterprises (DYNAMP), the use of deterministic	18	81
Planning the heavy land all-arable farm	18	55
Value analysis	19	113
Winter milk production, forage crops for profitable	17	7
FARM WASTE		
Chemical treatment of farm wastes	31	173
Cow slurry management with particular reference to Bridgets	23	294
Nutrients in livestock slurries on grassland, calculations for efficient use of	27	155
Pathogens in slurry and the animal health risks from disposal to land, the survival of	32	59

	Issue	Page
HORTICULTURE		
Biological control of glasshouse pests	39	285
Bulb onions from outwintered crops in the UK, early production of	19	101
Carrot fly control, insecticide residues and	19	125
Certification schemes for vegetatively-propagated crops in England and Wales, a historical review of	32	21
Industrial heat in protected cropping, the use of	37	63
Nitrogen oxides, injury to crops in glasshouses polluted with	33	134
Pea moth in the UK, the economic importance of the	31	159
Pepper spot in white cabbage — A literature review	25	81
Rooting and growth of hardy ornamentals, the effects of photoperiod on	25	41
Rose production, CO_2 enrichment and glasshouse	17	26
Tomato growers, a monitoring service for	30	122
Value analysis	19	113
LANDS		
Land classification of England and Wales, the agricultural	16	125
National Grid 1/2,500 plans, the	20	178
MECHANISATION		
Handling agricultural materials	37	111
Haymaking, the scope of research into	26	127
Operator comfort, combine harvesters and	33	144
METEOROLOGY		
Accumulated temperatures and Ontario 'Heat Units' recorded at NIRD, for maize production	16	131
Agro-climatic areas: a new approach to the issuing of weather and climate information	17	23
Animal disease forecasts — reflections on the winter 1978/79	37	87
Effects of weather on animal diseases, the	21	214
Mapping areas of England and Wales suitable for outdoor tomato production	38	138
Mapping areas of Britain suitable for maize on the basis of Ontario Units	31	217
Mapping areas of Britain suitable for maize on the basis of temperature	18	64
Water loss by evaporation from bare soil and the effect of partial crop cover, theoretical considerations of	16	135
Shelter in agriculture, forestry and horticulture	21	197
MISCELLANEOUS		
Commonwealth Agriculture Bureaux, the	30	107
Visual acuity on farms in England and Wales, a survey of	33	129
PESTS/CONTROL		
Carrot fly control, insecticide residues and	19	125
Fly control in animal houses	28	20
Frit-fly in grassland, the importance of	36	14
Glasshouse pests, biological control of	39	285
Nematode infection as a factor in the management of cattle, the hazard of	20	162
Pea moth in the UK, the economic importance of the	31	159
Sheep head fly and the problem of pasture flies, the	23	283
Sheep scab in Great Britain since 1972	21	208
Systematic approach to pest control, a — an account of the work of the Infestation Control Service of ADAS	24	16
Wheat bulb fly, an integral control strategy for the	38	145
Worming of suckler cows, the	22	243

	Issue	Page
PLANT PATHOLOGY		
Barley powdery mildew to fungicide, resistance of	39	226
Leaf and stem diseases of cereals, the use of fungicides for the control of	26	106
Pepper spot in white cabbage—a literature review	25	81
POULTRY		
Developing world, poultry production in the	35	260
Hide beetle (*Dermestes maculatus*) as a pest in deep pit poultry houses, the	34	187
Water in commercial egg production, the role of	28	35
SOCIO-ECONOMICS		
ADAS, socio-economic work in	17	16
Rural planning, ADAS socio-economic co-operation in—The Staffordshire Moorlands Development Project	31	228
Succession, the problem of	23	313
SOILS/FERTILISERS		
Available boron in soils, a review of soil extraction techniques used to determine	19	93
Crop nutrient status, quick sap tests for improved control of	27	137
Forage maize, levels of fertiliser for	18	49
Nitrate leaching: Principles and estimation	35	246
Survey of Fertiliser Practice (SFP), the use of information obtained by	22	267
WEEDS/CONTROL		
Aquatic weeds, the concept of localised control of	37	123
Black-grass (*Alopecurus myosuroides*, Huds) in modern cereal growing systems, the agro-ecology and control of	38	170
Docks (*Rumex* spp) in grassland in ten districts in the United Kingdom in 1972, survey of the incidence of	39	256
Herbicide persistance—the weather and the soil	27	168
Perennial weeds and their control on organic soils	27	146
Sugar beet, the present requirements from weed control in	36	40
Wild oats and black-grass, the chemical control of—A review based on results from ADAS agronomy trials	33	69

AUTHOR INDEX

ISSUES 16-39

	Issue	*Page*
ADAMS, R. P. Chemical treatment of farm wastes	31	173
ATKINSON, Miss K. M. Biological control of glasshouse pests	39	285
APPLETON, M. and RICHARDSON, S. J. Cow slurry management with particular reference to Bridget's	23	294
AUSTIN, R. B. Actual and potential yields of wheat and barley in the United Kingdom	29	76
BALDWIN, J. The chemical control of wild oats and blackgrass—A review based on results from ADAS agronomy trials	33	69
BARDNER, R. The economic importance of the pea moth in the United Kingdom	31	159
BARRETT, P. R. F. and ROBSON, T. O. The concept of localised control of aquatic weeds	37	123
BARRIE, I. A. and GRAY, D. Mapping areas of England and Wales suitable for outdoor tomato production	38	138
BASTIMAN, B. and JOHNSON, J. Some factors to explain why the potential of grazed grassland is not achieved in practice	35	211
BASTIMAN, B. and SLADE, C. F. R. The utilisation of forage crops—A review of recent work undertaken by ADAS	28	1
BENHAM, C. L. and REDMAN, P. L. Preservation of moist hay	39	212
BILLS. G. T. Fly control in animal houses	28	20
BRAY, B. G. and SCAIFE, M. A. Quick sap tests for improved control of nutrient status	27	137
BRAY, W. E. The present requirements from weed control in sugar beet	36	40
BROOKS, P. H. Early sexual maturity and mating of gilts	30	139
BROSTER, W. H. Developments in feeding dairy cows	39	234
BROSTER, W. H. and STRICKLAND, M. J. Feeding the dairy cow in early lactation	26	87
BULL, D. A. Handling agricultural materials	37	111
BUNTING, J. F. Land drainage in the restoration of opencast coal sites in the East Midlands	30	132
BUNYAN, P. J. and STANLEY, P. I. Agricultural chemicals and the environment—A review of the impact of agricultural chemical usage on flora and fauna	33	115
BURNS, I. G. and GREENWOOD, D. G. Nitrate leaching: principles and estimation	35	246
CALLWOOD, J. E. Planning the heavy land all-arable farm	18	55
CALVERT, J. T. and MORRIS, J. Drainage investment: measuring the return	20	151
CLEMENTS, R. O. and HENDERSON, I. P. The importance of frit-fly in grassland	36	14
COCKSHULL, K. E. and HAND, D. W. CO_2 enrichment and glasshouse rose production	17	26
COX, A. E. The choice of forage crops to complement grassland	25	63
COX, E. F. Pepper spot in white cabbage—a literature review	25	81
CRAWSHAW, R. An approach to the evaluation of silage additives	24	1
CRAWSHAW, R. and WOOLFORD, M. K. Aerobic deterioration of silage in and out of the silo	34	167
DART, P. R. and PRINCE, J. ADAS socio-economic co-operation in rural planning—The Staffordshire Moorlands Development Project	31	228
DAVIES, T. H. The evolution of modern dairy cow grazing systems	22	275
DAVIES, T. H. Hill land improvement	36	47
DEEBLE, F. K. Breeding profitable dairy cows—bull evaluation and selection	33	102

	Issue	Page
DIBB, C. and HAGGAR, R. J. Evidence of effect of sward change on yield	32	1
DOBSON, C. The use of a deterministic model to assist in the selection of farm building combinations for animal enterprises (DYNAMP)	18	81
DONEY, J. M. and GUNN, R. G. Ewe management for control of reproductive performance	35	231
DOUGLAS, H. A. SMITH, L. P. Theoretical considerations of the water loss by evaporation from bare soil and the effect of partial crop cover	16	135
DRAKE, G. D. The use of industrial heat in protected cropping	37	63
EBBELS, D. L. A historical review of certification schemes for vegetatively-propagated crops in England and Wales	32	21
EDEN, A. A long-term advisory exercise in milk production	29	88
ELLIOTT, J. G. Herbicides, pasture improvement and some current contradictions	24	36
ELLIS, F. B. and GRAHAM, J. P. The merits of precision drilling and broadcasting for the establishment of cereal crops in Great Britain	38	160
EVANS, S. A. Raising cereal yields	19	109
FARRER, K. A review of soil extraction techniques used to determine available boron in soils	19	93
GLADWELL, G. L. A monitoring service for tomato growers	30	122
GLOYNE, R. W. Shelter in agriculture, forestry and horticulture—A review of some recent work and trends	21	197
GRAHAM, J. P. and ELLIS, F. B. The merits of precision drilling and broadcasting for the establishment of cereal crops in Great Britain	38	160
GRAY, D. and BARRIE, I. A. Mapping areas of England and Wales suitable for outdoor tomato production	38	138
GREENWOOD, D. G. and BURNS, I. G. Nitrate leaching: principles and estimations	35	246
GUNN, R. G. and DONEY, J. M. Ewe management for control of reproduction performance	35	231
HAGGAR, R. J. Survey of the incidence of docks (*Rumex* spp) in grassland in ten districts in the United Kingdom in 1972	39	256
HAGGAR, R. J. and DIBB, C. Evidence of effect of sward change on yield	32	1
HAND, D. W. Injury to crops in glasshouses polluted with nitrogen oxides	33	134
HAND, D. W. and COCKSHULL, K. E. CO_2 enrichment and glasshouse rose production	17	26
HANN, C. M. Poultry production in the developing world	35	260
HEARN, P. J. and HILL, Mrs J. A. The role of water in commercial egg production	28	35
HENDERSON, I. P. and CLEMENTS, R. O. The importance of frit-fly in grassland	36	14
HILL, Mrs J. A. and HEARN, P. J. The role of water in commercial egg production	28	35
HOLLOMAN, D. W. Resistance of barley powdery mildew to fungicides	39	226
HOUGH, M. N. Mapping areas of Britain suitable for maize on the basis of Ontario units	31	217
HOUGH, M. N. Mapping areas of Britain suitable for maize on the basis of temperature	18	64
HUGHES, A. D. The use of information obtained by the Survey of Fertiliser Practice (SFP)	22	267
HUGHES, A. D. and STOKES, I. H. P. Subsoiling on Bodmin Moor	22	235
HUNTER, F. A. A systematic approach to pest control—An account of the work of the Infestation Control Service of ADAS	24	16
JACKSON, G. and MARSH, Miss H. The present position of mastitis control in the dairy herd	26	119
JONES, L. and SHEPPERSON, G. The scope of research into haymaking	26	127
JOHNSON, J. and BASTIMAN, B. Some factors to explain why the potential of grazed grassland is not achieved in practice	35	211

	Issue	Page
KELLY, P. Hypomagnesaemia in sheep: A review	34	151
KNIGHT, R. Feeding for milk quality	39	193
LONGDEN, P. C. Sugar beet seed pelleting	18	73
MACDONALD, J. Rabies and the livestock farmer	28	28
MARSH, Miss H. and JACKSON, G. The present position of mastitis control in the dairy herd	26	119
MASON, P. A. and WOODHAMS, L. A. A flexible walled silo	21	187
MATHEWSON, G. K. The worming of suckler cows	22	243
MAY, M. J. and SMITH, J. Perennial weeds and their control on organic soils	27	146
MCDOUGALL, J. D. Blue-greys as suckler cows and the role of the Whitebred Shorthorn	30	153
MCLEAN, K. A. Combine harvesters and operator comfort	33	144
MENNEER, R. R. Day lighting farm buildings	32	15
MENNEER, R. R. A survey of visual acuity on farms in England and Wales	33	129
MICHEL, J. F. The hazards of nematode infection as a factor in the management of cattle	20	162
MORRIS, J. and CALVERT, J. T. Drainage investment: measuring the return	20	151
MOSS, S. R. The agro-ecology and control of black-grass (*Alopercurus myosuroides* Huds) in modern cereal growing systems	38	170
NICHOLSON, J. A. H. Value analysis	19	113
NICHOLSON, J. A. H. Creativity in management	16	145
NOBLE, G. W. Farm management problems of the energy crisis	36	1
OAKLEY, J. N. An integrated control strategy for the wheat bulb fly	38	145
O'CALLAGHAN, J. R. and PARKES, M. E. Calculations for efficient use of nutrients in livestock slurries on grassland	27	155
OLIPHANT, J. M. A review of Experimental Husbandry Farm experience with reduced cultivation and direct drilling since 1968	23	306
OLLERENSHAW, C. B. and SMITH, L. P. The effect of weather on animal diseases	21	214
OLLERENSHAW, C. B. Animal disease forecasts—reflections on the winter 1978/79	37	87
PAIN, B. F. and PHIPPS, R. H. Levels of fertiliser for forage maize	18	49
PALMER, F. G. The feeding value of straw to ruminants	21	220
PALMER, F. G. The feeding value and worthwhileness of chemically processed straw for ruminants	22	247
PARKES, M. E. and O'CALLAGHAN, J. R. Calculations for efficient use of nutrients in livestock slurries on grassland	27	155
PENFOLD, H. G. Landscape and farm buildings	35	223
PERKS, D. A. Mixed stocking of beef cattle and sheep	17	33
PHILLIPS, M. C. Survey on the use of minimum cultivations in Warwickshire	28	13
PHIPPS, R. H. Accumulated temperatures and Ontario 'Heat Units', recorded at the NIRD, for maize production	16	131
PHIPPS, R. H. and PAIN, B. F. Levels of fertiliser for forage maize	18	49
POLLARD, F. The problem of straw in reduced cultivation and direct drilling	24	26
PRINCE, J. and DART, P. R. ADAS socio-economic co-operation in rural planning—the Staffordshire Moorlands Development Project	31	228
PUGH, C. L. The use of mini-computers in farm management	29	71
REDMAN, P. L. and BENHAM, C. L. Preservation of moist hay	39	212
RICKABY, C. D. A review of the nutritional aspects of complete diets for dairy cows	29	51
RICKABY, C. D. Developments in complete diet feeding of dairy cows	34	195
RICKABY, C. D. A note on selenium for ruminants	38	129
RICHARDSON, M. J. Cereals—why only 35 cwt per acre?	16	152
RICHARDSON, S. J. and APPLETON, M. Cow slurry management with particular reference to Bridget's	23	294
ROBSON, T. O. and BARRETT, P. R. F. The concept of localised control of aquatic weeds	37	123

	Issue	Page
RUMNEY, R. P. Agro-climatic areas: a new approach to the issuing of weather and climatic information	17	23
RUSHTON, P. L. The Agricultural Land Classification of England and Wales	16	125
SALTER, P. J. Early production of bulb onions from overwintered crops in the United Kingdom	19	101
SCAIFE, M. A. and BRAY, B. G. Quick sap tests for improved control of crop nutrient status	27	137
SCOTT, B. M. The use of growth promoting implants in beef production	31	185
SHELDRICK, R. D. and WILKINSON, J. M. Recent developments in the production and utilisation of forage maize	37	95
SHEPPERSON, G. and JONES, L. The scope of research into haymaking	26	127
SLADE, C. F. R. and BASTIMAN, B. The utilisation of forage crops—a review of recent work undertaken by ADAS	28	1
SMITH, G. E. The National Grid 1/2,500 plans	20	178
SMITH, J. and MAY, M. J. Perennial weeds and their control on organic soils	27	146
SMITH, J. H. C. Sheep Scab in Great Britain since 1972	21	208
SMITH, L. P. and DOUGLAS, H. A. Theoretical considerations of the water loss by evaporation from bare soil and the effect of partial crop cover	16	135
SMITH, L. P. and OLLERENSHAW, C. B. The effects of weather on animal diseases	21	214
SNOAD, B. The origin, performance and breeding of leafless peas	37	69
STANLEY, P. I. and BUNYAN, P. J. Agricultural chemicals and the environment—a review of the impact of agricultural chemical usage on flora and fauna	33	115
STEVENS, D. B. The use of fungicides for the control of leaf and stem diseases of cereals	26	106
STOKES, I. H. P. and HUGHES, A. D. Subsoiling on Bodmin Moor	22	235
STRICKLAND, M. J. The response of individual cows to levels of feeding	34	179
STRICKLAND, M. J. and BROSTER, W. H. Feeding the dairy cow in early lactation	26	87
SUETT, D. L. Insecticide residues and carrot fly control	19	125
TARRY, D. W. The sheep head fly and the problem of pasture flies	23	283
THOMSON, D. Questionnaire design	17	1
TIDBURY, G. E. The Commonwealth Agricultural Bureaux	30	107
UNWIN, R. J. Atmospheric fluoride pollution in the United Kingdom and possible effects upon agricultural and horticultural crops	39	271
WADE, D. R. A physiological analysis of maximum yield potential in cereals	25	72
WALKER, A. Herbicide persistence—the weather and the soil	27	168
WALTERS, R. J. K. The field assessment of digestibility of grass for conservation	23	323
WAYMAN Miss C. and WILDEY, K. B. The hide beetle (*Dermestes maculatus*) as a pest in deep pit poultry houses	34	187
WEBSTER, J. P. G. Alternative approaches to farm business analysis and planning	20	139
WESTON, W. C. Socio-economic work in ADAS	17	16
WESTON, W. C. The problems of succession	23	313
WHALLEY, D. N. The effect of photoperiod on rooting and growth of hardy ornamentals	25	41
WHILDING, R. Forage crops for profitable winter milk production	17	7
WILDEY, K. B. and WAYMAN Miss C. The hide beetle (*Dermestes maculatus*) as a pest in deep pit poultry houses	34	187
WILKINSON, J. M. and SHELDRICK, R. D. Recent developments in the production and utilisation of forage maize	37	95
WILLEY, D. A link farm reviewed	24	32
WILLIAMS, B. R. The survival of pathogens in slurry and the animal health risks from disposal to land	32	59

	Issue	*Page*
WOODHAMS, L. and MASON, P. A. A flexible walled silo	21	187
WOOLFORD, M. K. and CRAWSHAW, R. Aerobic deterioration of silage in and out of the silo	34	167
WURR, D. C. E. Physiological quality of potato seed tubers	36	27

Printed in England for Her Majesty's Stationery Office by
Robendene Ltd., Amersham, Bucks.
Dd 716876 C10 9/81

HER MAJESTY'S STATIONERY OFFICE

Government Bookshops

49 High Holborn, London WC1V 6HB
13a Castle Street, Edinburgh EH2 3AR
41 The Hayes, Cardiff CF1 1JW
Brazennose Street, Manchester M60 8AS
Southey House, Wine Street, Bristol BS1 2BQ
258 Broad Street Birmingham B1 2HE
80 Chichester Street, Belfast BT1 4JY

Government Publications are also available through booksellers

ISBN 0 11 241219 X